PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4393WO			ent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/NL 03/00877				International filing date	(day/mon	th/year)	Priority date (day/mor	nth/year)
PC1/NL 03/00877			· · · · · · · · · · · · · · · · · · ·	10.12.2003			11.12.2002	
C01			nt Classification (IPC) or be	th national classification a	and IPC	٠		
Applic DSM		SSE	TS B.V. et al.					
1.	This Auth	interr ority	national preliminary exar and is transmitted to the	nination report has bee applicant according to	n prepa Article 3	red by this Inte 36.	rnational Preliminary	Examining
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	This report contains indications relating to the following items:							
	1	\boxtimes	Basis of the opinion					
	II.		Priority					
	111		Non-establishment of	opinion with regard to n	ovelty, i	nventive step a	ınd industrial applical	bility
IV ☐ Lack of unity of invention								
	V	Ø	Reasoned statement uncitations and explanations	ınder Rule 66.2(a)(ii) wi ons supporting such sta	ith regar atement	d to novelty, in	ventive step or indus	trial applicability;
	VI		Certain documents cite	ed				
	VII			nternational application				
	VIII Certain observations on the international application							
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Date of submission of the demand				Date of	f completion of th	is report		
24.06.2004			01.09.2004					
Name prelim	and n	exami	address of the internation ning authority:	al	Authorized Officer			
European Patent Office D-80298 Munich			Wern	or H				
Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			1	·	2000 0574			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00877

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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages					
	1-20)	as originally filed				
	01-						
	Cia	ims, Numbers					
1-18			as originally filed				
Drawings, Sheets							
	1/1		as originally filed				
2.	With	ith regard to the language , all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.					
	The	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	With inte	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the ternational preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in written form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
	☐ The statement that the subsequently furnished written sequence listing does not go beyond t in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	mendments have resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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International application No.

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5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

1-18

Inventive step (IS)

Yes: Claims

Claims

Claims

1-18

Industrial applicability (IA)

Yes: Claims

1-18

No: Claims

2. Citations and explanations

see separate sheet

The present application fulfils the requirements of Art 33 PCT. A method for mixing a solution comprising hydroxyl ammonium and phosphate with a solution comprising nitric acid is claimed. The concentrations of hydroxyl ammonium, phosphate and total acid and the temperature should be within the limits given by the equation in claim 1. In the thus obtained solution the decomposition of hydroxyl ammonium is reduced or prevented. The hydroxyl ammonium is then used in the production of cyclohexanone oxime.

Prior art:

WO 01 94296 A and WO 01 94298 A disclose the production of cyclohexanone oxime using hydroxyl ammonium. The equation for avoiding decomposition of hydroxyl ammonium in solutions comprising hydroxyl ammonium, phosphate and nitric acid is not given and no examples are given for mixing solutions according to claim 1 of the present application. The problem of avoiding decomposition of hydroxyl ammonium in solutions comprising hydroxyl ammonium, phosphate and nitric acid is not discussed. GB-A-1 138 750 disclose production of oximes using hydroxyl ammonium salts. Mixing as claimed in the present application is not disclosed. The problem of avoiding decomposition of hydroxyl ammonium in solutions comprising hydroxyl ammonium, phosphate and nitric acid is not discussed.

These improvements could not have been predicted and justify inventivity.